BUDGET ACTIVITY

PE TITLE: Information Operations Technology

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)

February 1999

7 - Operational System Development

PE NUMBER AND TITLE

0603690F Information Operations Technology

PROJECT **4822**

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COST (\$ In Thousands)	FY 1998 Actual	FY 1999 Estimate	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
4822 Integrated Information Operations	0	0	491	491	490	489	489	488	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0	0

(U) A. Mission Description

- (U) Information Operations (IO) Technology demonstrates and validates advanced technology-based capabilities and techniques to support tactical and operational commanders' and National Command Authorities' needs for offensive and defensive IO. The projects are oriented towards specific shortfalls and deficiencies documented by major commands (MAJCOMS), unified commands, and IO agencies in mission area plans and mission need statements. The labs and SPO work directly with users and battle labs to set priorities and find synergistic combinations of new technology, doctrine and training. The goal of this program is to expedite technology transition from the laboratory and industry to operational use via rapid prototyping.
- (U) The Integrated Information Operations project will investigate and develop techniques and technologies for integrated IO. It will include a series of studies designed to assess cross-functional opportunities and capabilities to address various aspects of Integrated IO. Potential focus areas include integrated attack opportunities, defense oportunities, and integration of IO planning into air operations planning. Projects efforts will be prioritized and guided by the IO Technical planning Integrated Planning Team (TPIPT) in support of the Air Force Counterinformation Mission Area Plan and the DOD IO Master Plan.
- (U) The initial study will investigate techniques and technologies for defending systems against sophisticated Information Warfare (IW) and computer network attacks that are beyond commercially available protection systems. Examples include options for detecting and defending against attacks on our theater RF links and nets, detecting and defending satellite up and downlinks, defending C4I systems from intelligence trade-craft and the use of deception and OPSEC as countermeasures against adversary attacks. Since this initial study is more focused at tactical defense in crisis or war, more active response options will be explored. Specific content classified. Data available upon request.
- (U) The next study will assess opportunities for exploiting Integrated Air Defense Systems (IADS) vulnerabilities to a number of technologies. The objective is to complement existing and planned capabilities to suppress adversary IADS as well as highlite potential vulnerabilities of our own systems. For focus, it will explore technical solutions to deficiencies identified by the Air Force and DOD Electronic Warfare and IO long-range planning and development efforts. Specific content is classified. Data available upon request.

Project 4822 Page 1 of 6 Pages Exhibit R-2 (PE 0603690F)

DATE RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit) February 1999 BUDGET ACTIVITY PE NUMBER AND TITLE **PROJECT** 0603690F Information Operations Technology 7 - Operational System Development 4822 (U) FY 1998 (\$ in Thousands): (U) \$0 Total (U) FY 1999 (\$ in Thousands): Total (U) \$0 (U) FY 2000 (\$ in Thousands): Start Initial Integrated Information Operations (IO) Study - Sophisticated IW Defense Study (U) \$491 (U) \$491 Total (U) FY 2001 (\$ in Thousands): Continue Sophisticated IW Defense Study (U) \$146 Start Integrated Air Defense System (IADS) Exploitation Study (U) \$345 (U) \$491 Total (U) B. Budget Item Justification This program is in Budget Activity 4 - Demonstration and Validation, because it demonstrates and validates advanced technology which enhances IO systems, capabilities and techniques. Exhibit R-2 (PE 0603690F) Project 4822 Page 2 of 6 Pages

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit) Pate February											
BUDGET ACTIVITY 7 - Operational System Development		PE NUMBER AN 0603690F		Technology	PROJECT 4822						
(U) C. Program Change Summary (\$ in Thousands)											
 (U) Previous President's Budget (U) Appropriated Value (U) Adjustments to Appropriated Value a. Cong Reductions b. SBIR 	<u>FY 1998</u> 0	<u>FY 1999</u> 0	FY 2000 0 0	FY 2001 0 0	Total Cost 0 0						
 c. Omnibus or Other Above Threshold Reprogram d. Below Threshold Reprogramming (U) Adjustments to Budget Years Since FY 1999 PB (U) Current Budget Submit/FY2000 PB (U) Significant Program Changes: Starting new program. 	0	0	491 491	491 491	TBD TBD						
(U) D. Other Program Funding Summary (\$ in Thousands)	!										
(U) None											
(U) RELATED ACTIVITIES:											
(U) These studies will leverage current DOD lab efforts. Studi Warfare development efforts under 303140F, Information S			ill complement	Computer Security	RDT&E and Information	tion					
(U) Some aspects of this program will be protected under the P	ANTHER DEN	Special Access Pr	ogram. Data av	ailable upon reuqu	est.						
Project 4822		age 3 of 6 Pages		E:	xhibit R-2 (PE 06036	690F)					

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)													DATE February 1999			
BUDGET ACTIVITY 7 - Operational System Develop		PE NUMBER AND TITLE 0603690F Information Operations Tec									PROJECT 4822					
(U) E. Acquisition Strategy																
All major contracts within this Program Electromander (DAC).	ment are	award	ed after	full and	open c	ompetitio	on unles	ss other	than full	l and op	en is jus	stified t	o the De	signated	Acquis	sition
(U) F. Schedule Profile																
	1	<u>FY</u> 2	1998 3	4	1	<u>FY 1</u> 2	<u>.999</u> 3	4	1	<u>FY 2</u>	2 <u>000</u> 3	4	1	<u>FY 2</u> 2	2 <u>001</u> 3	4
(U) Sophisticated IW Defense Study Start (U) IADS Exploitation Study Start	•	-	J	·	•	2	3		X	-	3	·	•	X	3	·
X - Denotes planned event * - Denotes completed event																
Project 4822					Page	2 4 of 6 P	ages					Exhibit	: R-2 (P	E 06036	690F)	

RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3)								3)	DATE F	February 1999				
7 - Operational System Development						BER AND TITLE 690F Infori	mation Op	chnolog		PROJECT 4822				
(U) A. Project	Cost Breakdown	(\$ in Thousan	ds)											
				<u>FY 1</u>	.998	FY 1999	FY 2000	FY 2001						
	IW Defense Study	ý					491	146						
(U) IADS Explo (U) Total	itation Study						491	345 491						
	Acquisition Histor	ry and Plannii	ng Information	n (\$ in Thous	sands)									
Performing Org														
Contractor or Government Performing Activity	Contract Method/Type or Funding <u>Vehicle</u>	Award or Obligation <u>Date</u>	Performing Activity <u>EAC</u>	Project Office <u>EAC</u>	Tota Prior to FY 1998	Budget	Budget <u>FY 1999</u>	Budget FY 2000	Budget <u>FY 2001</u>	Budget to Complete	Total <u>Program</u>			
Product Develope Contractor TBD Contractor TBD	ment Organization	<u>s</u>						491	146 345	Cont. Cont.	TBD TBD			
Support and Man N/A	agement Organiza	ations												
Test and Evaluati	ion Organizations													
Project 4822					Page 5 of 6	Pages		Exhi	bit R-3 (PE	E 0603690F)				

R	DATE F (DATE February 1999								
BUDGET ACTIVITY 7 - Operation	nal System De	velopmen	t	PE NUMBER 0603690		echnolog	·	PROJECT 4822		
(U) B. Budget A	Acquisition History	y and Plannin	g Information Con	tinued (\$ in Thousands)					
Government Fu	rnished Property:									
Item <u>Description</u>	Contract Method/Type or Funding <u>Vehicle</u>	Award or Obligation <u>Date</u>	Delivery <u>Date</u>	Total Prior to <u>FY 1998</u>	Budget <u>FY 1998</u>	Budget FY 1999	Budget FY 2000	Budget <u>FY 2001</u>	Budget to Complete	Total <u>Program</u>
Product Develope N/A	ment Property									
Support and Man N/A	nagement Property									
Test and Evaluati N/A	ion Property									
Subtotal Product Subtotal Support Subtotal Test and	and Management						491 0 0	491 0 0	Cont.	TBD
Total Project							491	491	Cont.	TBD
Project 4822				Page 6 of 6 Page	20		Evh	nibit R-3 (PE	0603690E/	